

PRODUCT INFORMATION

SEPLITE® LSF977

SEPLITE® Sugar Decolorization Resin
Sugar grade, Type 1, SBA resin



•Descriptions

SEPLITE® LSF 977 is the optimized sugar grade macroporous type 1, strong basic anion resin.

Due to its special designed porosity, it is especially effective for color body & organic substances removal from sugar syrups.

And the adsorption and desorption could be easily conducted,

SEPLITE® LSF 977 shows higher operation capacity and excellent mechanical strength to osmotic and thermal shock during operation.

Manufacturing process is fully compliant with European Union regulation on Ion Exchange Resins and Adsorbers used in the processing of foodstuffs ResAP 2004(3).

Please follow our start-up recommendations which is available upon request, when using our products in food applications.

•Physical and Chemical Characteristics

Matrix	Styrene Divinylbenzene copolymer, Macroporous
Functional Group	Type 1 Quaternary Ammonium
Physical Appearance	Ivory beads
Particle range (mm)	0.60-0.82 (min.95%)
Shipping weight (g/ml)	0.60-0.70
Density (g/ml)	1.00-1.10
Total capacity (eq/L)	≥0.85
Moisture Content (%)	60-70
Uniformity Coefficient	≤1.3
Volume change e (Cl ⁻ → OH ⁻)	22%
Shipping form	Cl ⁻

•Applications

- Decolorization in sugar production
- Decolorization of solutions of organic products



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Recommended Operating Conditions

Operating temp.	max. °C	90 (Cl-) 70 (OH-)
Operating pH		0 - 12
Min. Bed depth	mm	800
Pressure drop	max. kPa	300
Operation linear velocity	max. m/h	-
Backwash linear velocity	Approx. m/h	4 – 5 (at 20°C)
Backwash Freeboard	vol. %	80 - 100
Regenerant		NaOH NaCl / NaOH
Counter current regeneration level	Approx. g/l	60-80 200/ 20
Counter current regeneration concentration	wt. %	4 10/1
Co current regeneration level	Approx. g/l	60-80 200/ 20
Co current regeneration concentration	Approx. wt. %	4 10/1
Regeneration linear velocity	Approx. m/h	5
Rinse linear velocity	Approx. m/h	5
Rinse water requirement(slow/fast)	Approx. BV	4

Precautions

Resins should be stored in sealed containers or bags where temperature was above 0°C in dry conditions without exposure to direct sunlight.

Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.

In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.

Material and samples must be disposed according to local regulations.

Dry polymers will expand when become wetted and may cause an exothermic reaction.

Spilled materials may be slippery.

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